

Development Platform RainboW-G11D-MXM i.MX53 MXM Development Board



RainboW-G11D is a cost effective multipurpose platform powered by automotive grade i.MX536 MXM SOM. The platform integrates rich set of features with on-board Wi-Fi module, PCIe mini card slot for 3G module, HDMI, dual LCD display, SATA and various communication interfaces suitable for evaluating wide range of applications. With the built-in CAN, 1080p HD decode and connectivity features, the platform is ideal solution to build a quick vehicle entertainment systems with rich multimedia experience.

The platform comes with optimized drivers and software packages for various operating systems and suitable for broad embedded applications including Industrial, Automotive and Medical.

APPLICATIONS : Automotive IVI, Rear Seat Entertainment, Instrument Cluster, Portable Navigation, Telematics, Industrial HMI, Telehealth, POS Terminal, Security Systems, High-end PDAs, Digital Signage.



iW-RainboW-G11D-MXM HIGHLIGHTS

- Suitable for advanced multimedia requirements
- Dual Display support
- Ideal for quick development
- Compact Nano ITX form factor
- Quick customization is possible
- Suitable for wide range of application

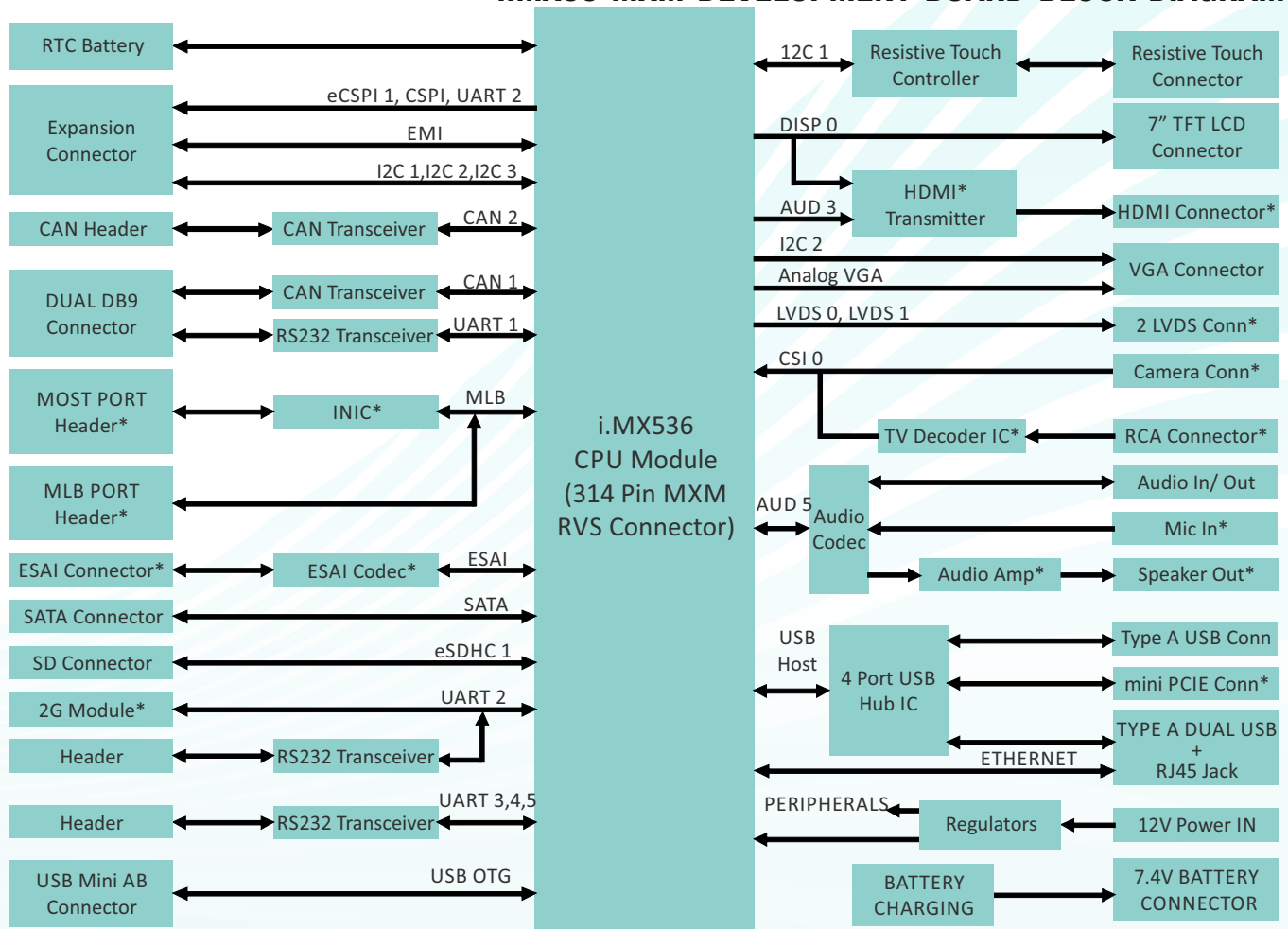
SPECIFICATIONS

CPU	Freescle's i.MX536 @ 800 MHz	Video Out	7" WVGA TFT LCD with resistive touch
RAM	512MB DDR2 RAM (Expandable to 1GB)		VGA Out – DB15
Storage	2GB MicroSD card		HDMI Port*
	8GB eMMC Flash*		Dual LVDS ports*
	Standard SD card	Connectivity	802.11b/g/n Wi-Fi*
	SATA Port		PCIe Mini Card for 3G Module*
Communication Interfaces		Expansion Connector	UART, SPI, I2C
	10/100 Ethernet port – RJ45		MLB, Audio, GPIOs
	USB 2.0 Host : 2 Ports	Expansion Headers	
	RS232 Console Port – DB9		MOST & CAN Headers*
	CAN Port – DB9*		ESAI & UART Headers*
Audio		Temperature	0°C to +60°C
	On-board Audio Codec		
	Headphone & Mic Jacks	Form Factor	120mm x 120mm, Nano ITX
Video in		OS Support**	Linux 2.6.35, Android 2.3, WEC7*, QNX*
	Camera Interface*		
	TV IN*		

*Optional

** Note: Device drivers provided are for specific interface chipsets, which are used in iWave's Carrier board

i.MX53 MXM DEVELOPMENT BOARD BLOCK DIAGRAM



*Optional

OS SUPPORT

Linux 2.6.35
 Android 2.3
 WEC7*
 QNX *

*Optional

DELIVERABLES

RainboW-G11D Platform Board Support Packages
 Power Adapter
 User Manual

OPTIONAL KITS

RainboW-G11M-MXM (i.MX53 SOM Module)

CUSTOM DEVELOPMENT

Custom SOM/ Carrier development
 BSP Development/ OS Porting
 Design Review & Support

iWave Systems Technologies, established in 1999, focuses on Product Engineering Services involving Embedded Hardware, Software & FPGA. The company designs and develops cutting edge products and solutions. iWave has been an innovator in the development of highly integrated, high performance, low power and low cost System On Modules and Development Platforms. iWave's expertise has brought out multiple SOMs based on ARM, Freescale, Intel Atom, Marvell and TI Processors.

iWave Systems has won the confidence of its customers over the years by being a reliable partner in developing innovative products. Our engineers combine outstanding System design experience to deliver Quality Solutions. iWave specializes across Industrial, Automotive and Medical domains. We support our customers by being time efficient, which in turn helps our customers accelerate time to market their products. iWave is a Windows embedded Silver partner and a winner of the Partner Excellence Award.

Note: iWave reserves the right to change these specifications without notice as part of iWave's continuous effort to meet the best of breed specification. The registered trademarks are proprietary of their respective owners.

*Optional items not included in the standard deliverables

Ordering the i.MX53 Development Board

The board can be ordered online from the iWave Website
<http://www.iwavesystems.com/webforms>

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